Contracts to Be Let

Bids received until Feb. 20, 1915.

Twenty-Inch Water Main

Middletown, N. Y.

Sealed proposals indorsed "Proposals for laying twenty inch cast iron water main" will be received at the office of the Commissioner of Public Safety at the City Hall, Middletown, N. Y., until 4 P.M. on Saturday, February 20th, 1915, when they will be publicly opened and read.

Proposals shall be accompanied by a certified check payable to the order of the Treasurer of the City of Middletown, N. Y., in the sum of Five Hundred Dollars. Approximate quantities are as follows:

A. Chopping, clearing and draining.
B. 2,510 lin.ft. of trenching and refilling.
C. 1,600 lin.ft. of deep trenching and refilling.
D. 1,890 lin.ft. of grading and embankment over pipe.
E. 6,000 lin.ft. of laying, jointing and caulking 20" pipe.
F. All testing pipes under pressure.

The right is reserved to reject any or all proposals or bids. Bond in the amount of not less than 50% of the contract price will be required for the proper performance of the contract. Plans and specifications can be obtained at the office of the Commissioner of Public Safety, No. 15 City Hall, Middletown, N. Y.

J. C. DEGNAN,
Commissioner of Public Safety.

Bids received until Feb. 17, 1915.

Furnishing Cement

STATE OF ILLINOIS
STATE HIGHWAY DEPARTMENT
Springfield, Illinois.

Notice is hereby given that sealed proposals for furnishing approximately 235,500 barrels of cement to be used in State Aid Road construction for the year of 1915 will be received at the office of the State Highway Commission, Springfield, Illinois, until 11:00 o'clock A.M., February 17, 1915.

All proposals must be made on forms furnished by the State Highway Commission, without any addition or modification whatsoever.

All proposals otherwise submitted will be rejected as irregular.

The State Highway Commission reserves the right to reject any or all proposals.

Full information may be obtained by writing direct to the State Highway Commission, Springfield, Illinois.

STATE HIGHWAY COMMISSION,
By WM. W. MARR,
Chief State Highway Engineer.

January 30, 1915.

Bids received until Feb. 15, 1915.

Concrete Reservoir

Tampa, Fla.

Sealed proposals will be received, until twelve o'clock noon, February 15th, 1915, at the office of the Tampa Water Works Company, Tampa, Florida, addressed to Chester R. McFarland, General Manager, for a reinforced concrete reservoir about 206 feet long by about 125 feet wide by about 20 feet deep, in accordance with plans and specifications to be furnished by the said Company. A deposit of twenty-five dollars will be required for a copy of the above mentioned plans and specifications. Each bid must be accompanied by a certified check for twenty-five hundred dollars ($2,500), on a National Bank of Tampa, Fla., or Philadelphia, Pa., and made payable to the order of the Tampa Water Works Co. The successful bidder will be required to file with the Tampa Water Works Co., to insure the faithful performance of the contract, a surety bond acceptable to the Water Works Co. for fifty per cent. of the contract price. The Tampa Water Works Co. reserves the right to reject any or all bids.

Bids received until Feb. 24, 1915.

Intercepting Sewers

OFFICIAL NOTICE NO. 9.

PUBLISHED BY AUTHORITY OF THE SEWERAGE COMMISSION OF THE CITY OF MILWAUKEE.

Milwaukee, Wis., January 15, 1915.

Sealed proposals for constructing intercepting sewers and connections on both sides of the Milwaukee River in the City of Milwaukee will be received by the Sewerage Commission at its office in the City Hall until 2:00 P.M. on the 24th day of February, A.D. 1915, at which place and time the proposals will be publicly opened and read.

The work to be done is divided into two separate contracts numbered 9 and 10.

Number 9 embraces the construction of an intercepting sewer and branches on the east side of Milwaukee River from a point below the Dam to the intersection of Broadway and Detroit Streets, and requires the construction of approximately:

7927 ft. brick and concrete sewer in open cut from 30" to 51" diameter.
3992 ft. brick and concrete sewer in tunnel from 30" to 51" diameter.
3844 feet terra cotta pipe sewer from 10" to 24" diameter.
1762 feet of manholes and pile and timber foundations.

Number 10 embraces the construction of an intercepting sewer and branches on the west side of Milwaukee River from the Holton Street viaduct to the intersection of West Water and Fowler Streets and requires the construction of approximately:

8480 ft. brick and concrete sewer in open cut from 30" to 48" diameter.
2340 feet terra cotta pipe sewer in open cut from 10" to 18" diameter.
1105 feet of manholes and pile and timber foundations.

All as shown upon the plans and described in the specifications now on file in the office of the Sewerage Commission.

The time allowed for completing each contract shall be two hundred and fifty (250) working days. (Working days meaning such as are particularly described in the contract.)

The liquidated damages for not completing the work within the time agreed shall, for each day's delay, be an amount equal to one-half of one percentum of the aggregate cost of the work embraced in the contract.

Each proposal must be accompanied by a cash deposit of, or, in lieu thereof, by a certified check drawn upon a national or state bank doing business in the City of Milwaukee, to the order of the "Sewerage Commission of the City of Milwaukee," for the following sums; failing in which the bid will be rejected:

For proposals Number 9, $38,500.00.
For proposal Number 10, $25,000.00.

Specifications and blank forms of proposals can be obtained, and details plans examined, at the office of the Sewerage Commission in the City Hall.

The prices must be written in the proposal and also stated in figures. In case of variation the written prices will prevail.

All cash deposits or certified checks deposited by bidders to whom the contract is not awarded will be returned upon application to the Secretary of the Commission after the contract has been awarded or after the rejection of all bids. The cash deposit or certified check which may be deposited by the successful bidder will be returned to him as soon as the contract is properly executed and approved by the City Attorney and Sewerage Commission.

Full sets of detail plans will be sent to any contractor desiring to bid upon receipt of ten dollars ($10.00).

The Sewerage Commission of the City of Milwaukee reserves the right to reject any and all bids submitted.

J. H. FOWLES, Secretary.

Countersigned:
LOUIS M. KOTECKI, Comptroller.

U. S. ENGINEER OFFICE, 405 Customhouse, Cincinnati, O., January 30, 1915.—Sealed proposals for constructing and delivering two steel Fuel Flats Nos. 18 and 19, and one steel Barge No. 15, will be received at this office until 2 p.m., March 2, 1915, and then publicly opened. Information on application. H. JERVEY, Lt. Col., Engrs.

Bids received until Feb. 25, 1915.

Concrete Bridge

DEPARTMENT OF PUBLIC WORKS
Office, 216 City Hall
Philadelphia, February 8th, 1915.

Sealed Proposals, endorsed "Bids for the construction of a concrete bridge and its approaches to carry Broad Street over the joint four track railroad, South Philadelphia Track Elevation," and addressed to the undersigned, at Room 216 City Hall, will be received until 12 o'clock, noon, February 25th, 1915, for

CONTRACT No. 201. Broad Street Bridge over the joint four track railroad, South Philadelphia Track Elevation.

Plans for the above work will be exhibited in the office of Bureau of Surveys, Philadelphia.

Specifications and blank forms upon which bids must be made, will be furnished upon application to the Chief Engineer, Room 416 City Hall.

Bidders must be skilled and regularly engaged in the class of work bid for.

Bids will be opened and read in Room 225 City Hall, at noon, on date above mentioned.

No bid will be considered unless accompanied by a certificate from the City Solicitor that the provisions of an ordinance requiring proposal bonds when the bids exceed in amount five hundred dollars, approved May 25, 1860 (p. 81, West), have been complied with.

The Director reserves to himself the right to reject any or all bids, as he may deem best for the interests of the city and the various Railroad Companies.

M. L. COOKE, Director.

Bids received until Feb. 18, 1915.

Sanitary Work in Hospital

Rochester, N. Y.

Sealed proposals for the new sanitary work in the North Building of the Rochester State Hospital, Rochester, N. Y., will be received by the State Hospital Commission, Capitol, Albany, N. Y., until 2:30 P.M. on Thursday, February 18, 1915, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed and shall be accompanied by a certified check in the sum of 5% of the amount of bid. The contractor to whom the award is made will be required to furnish surety company bond in the sum of 50% of the amount of contract within thirty (30) days after official notice of award of contract, and in accordance with the terms of specification No. 1956. The right is reserved to reject any or all bids. Drawings and specifications may be consulted at the Rochester State Hospital, Rochester, N. Y.; at the New York office of the Department of Architecture, Room 1224, Woolworth Building, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings and specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon the deposit of a certified check in the sum of $10 made payable to the State of New York, which check will be returned if plans and specifications are sent back in good condition to the State Architect, Lewis F. Pilcher, Capitol, Albany, N. Y.

Bids received until Mar. 2, 1915.

Proposals for Road Oil

Wilkes-Barre, Pa.

SEALED PROPOSALS will be received at the City Clerk's Office, Wilkes-Barre, Pennsylvania, until Tuesday, March 2nd, 1915, at 12 o'clock noon, for furnishing and delivering F.O.B. cars, Wilkes-Barre, Pennsylvania, Forty Thousand (40,000) gallons of road oil, more or less. The bidder will quote prices by the barrel, tank car or otherwise and will plainly give the name or brand of oil bid on, and must submit samples with proposal. Proposals will be endorsed "Proposals for Road Oil" and addressed to Fred H. Gates, City Clerk, and each bid must be accompanied by a certified bank check of the bidder in the sum of Two Hundred Dollars ($200.00), conditioned upon entering into a contract with the City, otherwise no action will be taken on the bid submitted. The City reserves the right to reject any or all bids received.

CHARLES N. LOVELAND, Superintendent,
Department of Streets and Public Improvements.

Bids received until Mar. 4, 1915.

Building Construction

Newark, N. Y.

Sealed proposals for Cottage for ninety-two inmates, Construction, Heating, Plumbing and Electric Work and for Hospital Building, Construction, Heating, Plumbing and Drainage and Electric Work at the New York State Custodial Asylum for Feeble Minded Women, Newark, N. Y., will be received by Dr. Henry H. Stebbins, President, Board of Trustees New York State Custodial Asylum for Feeble Minded Women, Newark, N. Y., until 12 o'clock Noon, March 4th, 1915, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified check in the sum of five per cent. of the amount of bid. Contractors to whom the awards are made will be required to furnish surety company bond in the sum of fifty per cent. of the amount of contract within thirty (30) days from date of official notice of award of contract and in accordance with the terms of specification Nos. 2055, 2076, 2077, 2078, 2117, 2121, 2122 and 2123. The right is reserved to reject any or all bids. Drawings and specifications may be consulted at the New York State Custodial Asylum for Feeble Minded Women, Newark, N. Y.; at the New York office of the Department of Architecture, Room 1224, Woolworth Building, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings and specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice and upon the deposit of a certified check in the sum of Ten Dollars ($10.00) made payable to the State of New York for each set of plans and specifications, which check will be returned if the plans and specifications are sent back in good condition to the State Architect, Lewis F. Pilcher, Capitol, Albany, N. Y.

Bids received until Feb. 25, 1915.

Pump with Appurtenances

DEPARTMENT OF PARKS AND PUBLIC PROPERTY
Atlantic City, N. J.

SEALED PROPOSALS accompanied by plans and specifications for designing, furnishing, installing and testing One 18 million gallon Turbo-Centrifugal Pump with appurtenances, for the Absecon Pumping Station of Atlantic City, N. J., will be received by the Board of Commissioners of Atlantic City, when called for at the Chambers of said Board in the City Hall during a meeting to be held by that Body on the 25th day of February A.D. 1915, at which time and place, during a session of said Board the Proposals will be opened and publicly read.

Each Proposal submitted must be accompanied by a certified check drawn upon a National or State Bank, or a Trust Company and to the order of the City Treasurer of Atlantic City, N. J., for the sum of Three Thousand ($3,000.00) Dollars.

Specifications and blank forms of Proposal can be obtained from L. Van Gilder, Engineer and Superintendent of the Water Department at his office in the City Hall.

The Board of Commissioners expressly reserves the right to reject any or all bids as it may deem best for the public interest.

HARRY BACHARACH,
Director of Parks and Public Property.

Bids received until Feb. 25, 1915.

Section H—Dorchester Tunnel

City of Boston, Mass.

Sealed bids for building Section H, Dorchester Tunnel, will be received by the undersigned until 12 o'clock noon of Thursday, February 25, 1915. The section is located in Dorchester avenue between Old Colony avenue and Woodward street, and is about 2,200 feet long. The structure is to be mainly of reinforced concrete, and consists of a single span double track tunnel to be built by the cut and cover method. The work also includes a pump well, an emergency exit, and sewer changes. Specifications and forms of contract can be obtained at 15 Beacon street, ninth floor. The right to reject any and all bids and to award the contract as is deemed to be for the best interest of the City of Boston is reserved.

By order of the BOSTON TRANSIT COMMISSION,
B. LEIGHTON BEAL, Secretary.

Bids received until Feb. 25, 1915.

Water Meters and Machinery

BUREAU OF ENGINEERING.
DEPARTMENT OF PUBLIC WORKS.

Chicago, February 3, 1915.

Sealed proposals will be received by the City of Chicago until 11 a.m. Thursday, February 25th, 1915, at Room 406 City Hall, for manufacturing and delivering to the City of Chicago Water Meters, made according to designs prepared by the City of Chicago. The following quantities of water meters are desired:

1,500 ¾-inch meters.
2,000 1-inch meters.
750 1½-inch meters.
750 2-inch meters.

The city will furnish detail drawings and one set of patterns of each meter. The contractor is to turn over to the city upon completion of his contract special machinery, tools, dies, jigs, etc., used in the manufacture of the meters, according to plans and specifications on file in the office of the Department of Public Works of said city, Room 406 City Hall.

Proposals must be made out upon blanks furnished at said office, and be addressed to said department, indorsed "Proposals for Water Meters," and be accompanied with One Thousand Dollars in money or a certified check for the same amount on some responsible bank located and doing business in the City of Chicago, and made payable to the order of the Commissioner of Public Works.

The Commissioner of Public Works reserves the right to reject any or all bids.

No proposal will be considered unless the party offering it shall furnish evidence satisfactory to the Commissioner of Public Works of his ability, and that he has the necessary facilities, together with sufficient pecuniary resources, to fulfill the conditions of the contract and specifications provided such contract should be awarded to him.

Companies or firms bidding will give the individual names as well as the name of the firm with their address.

L. E. McGANN,
Commissioner of Public Works.

Bids received until Mar. 15, 9115.

Notice to Bridge Contractors

Central Falls and Cumberland, R. I.

Sealed proposals for the construction of a three span reinforced concrete arch bridge across the Blackstone River, between the City of Central Falls, R. I., and the Town of Cumberland, R. I., will be received at the office of Esten & Black, Engineers, 18 East Ave., Pawtucket, R. I., until Twelve o'clock noon, March 15, 1915.

At (8) eight o'clock P.M. of the same day, March 15, 1915, they will be publicly opened and tabulated by the Central Falls and Cumberland Bridge Commission, at the Town Hall in the Town of Cumberland, Valley Falls, R. I.

Plans, specification, form of proposal, etc., may be obtained at the office of Esten & Black, Engineers, 18 East Ave., Pawtucket, R. I., upon depositing the sum of ($25) twenty-five dollars which will be refunded when the plans and specifications are returned in good condition and accompanied with a bid.

Each bid must be accompanied by a certified check of ($500) five hundred dollars each, one of which being payable to the City Treas. of the City of Central Falls, R. I., and the other to the Town Treas. of the Town of Cumberland, R. I.

The Commission reserves the right to reject any and all bids.

ESTEN & BLACK, Engineers.

Bids received until Mar. 3, 1915.

Water and Sewer Plants

The Village of Lyons, N. Y.

Sealed proposals will be received by the Municipal Board of the Village of Lyons, N. Y., up to noon on the 3rd day of March, 1915, for the construction of a water works plant and for the construction of a sewerage system in accordance with plans and specifications therefor on file with the Clerk of said Village. Full information and bidding sheets may be obtained of J. F. Witmer & Co., Engineers for said Village, Dunn Building, Buffalo, N. Y., or of the undersigned at Lyons, N. Y.

H. F. ZIMMERLIN, Village Clerk.

Bids received until Feb. 16, 1915.

New York State Hospital

West Haverstraw, N. Y.

Sealed proposals for the new Hospital Building, Construction, Heating, Plumbing and Drainage, Electric Work and Electric Elevator at the New York State Hospital for Crippled and Deformed Children, West Haverstraw, N. Y., will be received by Mr. George Blagden, President of the Board of Managers, New York State Hospital for Crippled and Deformed Children, West Haverstraw, N. Y., until Tuesday, February 16th, 1915, at 1 P.M., when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State . rchitect, sealed and addressed, and shall be accompanied by a certified check in the sum of Twelve hundred Dollars ($1200.00) for Construction Work, in the sum of five per cent. of the amount of bid for Heating Work, in the sum of One hundred and fifty Dollars ($150.00) for Plumbing Work, in the sum of five per cent. of the amount of bid for Electric Work and Electric Elevator. Contractors to whom the awards are made will be required to furnish surety company bond in the sum of fifty per cent. of the amount of contract within thirty (30) days after official notice of award of contract and in accordance with the terms of specifications Nos. 2079, 2081, 2082, 2083 and 2084. The right is reserved to reject any or all bids. Drawings and specifications may be consulted at the New York State Hospital for Crippled and Deformed Children, West Haverstraw, N. Y.; at the New York office of the Department of Architecture, Room 1224, Woolworth Building, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings and specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon reasonable notice and upon the deposit of a certified check in the sum of Ten Dollars ($10.00) made payable to the State of New York for each set of plans and specifications, which check will be returned if plans and specifications are sent back in good condition to the State Architect, Lewis F. Pilcher, Capitol, Albany, N. Y.

Bids received until Mar. 12, 1915.

Proposals for Street Paving

Wilkes-Barre, Pa.

SEALED PROPOSALS will be received at the City Clerk's Office, Wilkes-Barre, Pennsylvania, until Friday, March 12th, 1915, at 12 o'clock Noon, for curbing and paving streets in the City of Wilkes-Barre, Pennsylvania. Bids to be submitted in accordance with specifications, copies of which may be had upon application to B. K. Finch, City Engineer, upon the payment to him of the sum of Five Dollars ($5.00), which will be refunded to bidders, provided specifications are returned to the City Engineer on or before March 15th, 1915. Bids to be submitted as follows:—For sheet asphalt in two sections, totaling about 40,000 square yards; For vitrified brick in four sections totaling about 46,000 square yards; For cobblestone in one section of 600 square yards; For vitrified brick and macadam in one section of 7,500 square yards, together with the necessary red stone, blue stone or concrete curbing. Certified bank check for Five Hundred Dollars ($500.00) to accompany each bid except for cobblestone, which will be for One Hundred Dollars ($100.00). Proposals to be endorsed "Proposals for curbing or paving" and addressed to Fred H. Gates, City Clerk. The City Council reserves the right to reject any or all bids received.

CHARLES N. LOVELAND, Superintendent,
Department of Streets and Public Improvements.

Attention of Large Contractors

is called to an opportunity of which full information can be obtained by writing

JOHN L. ROPER LUMBER COMPANY,
Norfolk, Va. ..

OFFICE OF THE COMMISSIONERS, D. C., February 4th, 1915.—SEALED PROPOSALS will be received at this office, Room 509 District Building, until 2 o'clock P.M., on February 15th, 1915, for the construction of Sewers in the District of Columbia, involving the construction of approximately 3,500 linear feet of trunk sewers, 6 foot 6 inch span to 7 foot span. Forms of proposals, specifications and necessary information may be obtained from the Chief Clerk, Engineer Department, Room 427 District Building, Washington, D. C. OLIVER P. NEWMAN, LOUIS BROWNLOW, CHARLES W. KUTZ. Commissioners, D. C.

U. S. ENGR. OFFICE, Boston, Mass., Jan. 18, 1915.—Sealed proposals for dredging in Chelsea Creek, Boston Harbor, Mass., will be received here until 12 M., Feb. 18, 1915, and then publicly opened. Information on application. W. E. CRAIGHILL, Lieut. Col., Engrs.

U. S. ENGINEER OFFICE, 305 Southern Building, Washington, D. C., Jan. 18, 1915.—Sealed proposals for substitution of through span for deck span in the Pennsylvania Avenue Bridge across Anacostia River, Washington, D. C., will be received at this office until Feb. 17, 1915, and then publicly opened. Information on application. H. C. NEWCOMER, Lt. Col., Engrs.

U. S. ENGINEER OFFICE, First District, New York City, Room 710, Army Building, 39 Whitehall Street, New York, N. Y., Jan. 30, 1915.—Sealed proposals for constructing one motor launch will be received at this office until 12 M., February 15, 1915, and then publicly opened. Information on application. W. M. BLACK, Col. Engrs.

U. S. ENGINEER OFFICE, First District, New York City, Room 710, Army Building, 39 Whitehall Street, New York, N. Y., January 23, 1915.—Sealed proposals for dredging in Port Chester Harbor, N. Y., will be received at this office until 12 M., February 23, 1915, and then publicly opened. Information on application. W. M. BLACK, Col., Engrs.

U. S. ENGINEER OFFICE, Savannah, Ga., January 25, 1915—Sealed proposals for furnishing and placing stone for raising low places in jetty at Savannah Harbor, Ga., will be received at this office until 12 Noon (Eastern Standard Time) February 24, 1915, and then publicly opened. Information on application. W. C. LANGFITT, Col., Engrs.

U. S. ENGINEER OFFICE, Galveston, Texas, Feb. 2, 1915.—Sealed proposals for dredging at Port Aransas, Texas, and in the Channel from Aransas Pass to Corpus Christi, Texas, will be received at this office until 12 o'clock noon, March 3, 1915, and then publicly opened. Information on application. C. S. RICHE, Lieut. Col., Engineers.

U. S. ENGINEER OFFICE, Room 802, Army Building, 39 Whitehall Street, New York City, February 4, 1915.—Sealed proposals for dredging in Woodbridge Creek, Raritan Bay, and Shrewsbury River, N. J., will be received at this office until 12 M., February 19, 1915, and then publicly opened. Bids for any or all of these works will be considered. Information on application. FREDERIC V. ABBOT, Colonel, Engineers.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., January 28, 1915.—Sealed proposals will be received in this office until 3 o'clock p.m. March 11, 1915, and then opened, for the mechanical equipment (except elevator) of the experiment station, United States Bureau of Mines, Pittsburgh, Pa., in accordance with drawings and specifications, copies of which may be obtained at this office, in the discretion of the Supervising Architect. O. WENDEROTH, Supervising Architect.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., February 1, 1915.—SEALED PROPOSALS will be opened in this office at 3 p.m., March 25, 1915, for the construction complete (including mechanical equipment—except elevator—lighting fixtures, and approaches) of the United States Post Office and Court House at Pendleton, Oregon. Three-story and basement, fireproof building; ground area, 5,500 square feet; stone, terra-cotta, and brick facing. Drawings and specifications may be obtained, after February 11, 1915, from the Custodian of site at Pendleton, Oregon, or at this office, in the discretion of the Supervising Architect. O. WENDEROTH, Supervising Architect.

Bids received until Mar. 5, 1915.

Supply of True Portland Cement

SEASON 1915.

GREATER WINNIPEG WATER DISTRICT.

Sealed **Tenders addressed to the undersigned** will be received up **to Noon March 5th, 1915, for the supply** of from **60,000 to 150,000 barrels of True Portland cement.**

Specifications and Form of Tender may be obtained and Form of Contract may be inspected at the Offices of the District.

The lowest or any tender not necessarily accepted.

S. H. REYNOLDS,
Chairman of Commissioners.

901 Boyd Building, Winnipeg, Man.
Date February 1st, 1915.

U. S. ENGINEER OFFICE, Wilmington, N. C., Feb. 10, 1915.—Sealed proposals for dredging in Neuse River, waterway from Pamlico Sound to Beaufort Inlet, and Beaufort Harbor, N. C., will be received at this office until 12 M., Mar. 9, 1915, and then publicly opened. Information on application. H. W. STICKLE, Maj., Engineers.

PROPOSALS FOR RIVER BANK PROTECTION—U. S. Engineer Office, Customhouse, St. Louis, Mo., February 8, 1915.—Sealed proposals for 10,000 linear feet of river bank protection, to include materials and work, will be received at this office until 11 A.M., March 10, 1915, and then publicly opened. Information on application. C. McD. TOWNSEND, Col., Engineers.

U. S. ENGINEER OFFICE, 602 Burke Bldg., Seattle, Wash., Feb. 3, 1915.—Sealed proposals for pumping plant for Lake Washington Canal locks will be received at this office until 12 noon, March 15, 1915, and then publicly opened. Information on application to U. S. Engr. Office, Seattle, Wn., Chicago, Ill., or New York, N. Y. J. B. CAVANAUGH, Maj., Engrs.

DEPARTMENT OF THE INTERIOR, U. S. RECLAMATION SERVICE, Washington, D. C., February 2, 1915.—Sealed proposals will be received at the office of the United States Reclamation Service, Grand Junction, Colorado, until 2 o'clock, P.M., March 10, 1915, for about 640,000 yards of canal excavation. The work is situated in the vicinity of Grand Junction and Fruita, Colorado. For particulars, address the United States Reclamation Service, Grand Junction, Colorado, or Washington, D. C. A. P. DAVIS, Director and Chief Engineer.

U. S. ENGINEER OFFICE, Trust Company Building, Postoffice and Tremont Sts., Galveston, Texas, January 25, 1915.—Sealed proposals for construction of motor dredge tender, "La Porte," will be received at this office until 12 o'clock, noon, February 23, 1915, and then publicly opened. Information on application. C. S. RICHE, Lt. Col., Engineers.

U. S. ENGINEER OFFICE, Cincinnati, O., January 27, 1915.—Sealed proposals for constructing and delivering two steel hull sternwheel towboats "Cayuga" and "Ottawa" will be received at this office until 2 p.m., February 26, 1915, and then publicly opened. Information on application. H. JERVEY, Lt. Col., Engrs.

Classified Advertising

Positions Wanted, 3 cents a word, minimum charge 50 cents an insertion, payable in advance.

Positions Open, (Civil Service Examinations), **Employment Agencies** (Labor Bureaus), **Business Opportunities, Wanted** (Agents and Salesmen—Contract Work), **Miscellaneous** (Educational—Books), **For Sale**, 5 cents a word, minimum charge $1.00 an insertion.

Count four words for keyed address care of New York; five for Chicago. Abbreviated words or symbols count as full words.

Copy should reach us not later than 10 A.M. Wednesday for that week's issue. Answers addressed to our care, Tenth Avenue at Thirty-sixth St., New York or 1144 Monadnock Block, Chicago will be forwarded (excepting circulars or similarliterature).

No information given by us regarding keyed advertiser's name or address. Original letters of recommendation or other papers of value should not be inclosed to unknown correspondents. Send copies.

Advertisements calling for bids, $3.60 an inch per insertion. N

POSITIONS WANTED

Mechanical and Electrical Engineers

MECHANICAL ENGINEER, 20 years' practical experience as a designer in various branches of mechanical engineering, capable of independent investigation of mechanical problems, desires position. "Exceptional ability" one reference says. P. W. 838, Eng. News.

Civil Engineers

ENGINEER, 14 years' experience; surveys on railroad location and construction, irrigation, drainage, United States Geological, subdivisions, flood prevention and sewers. Flitman, 7 West Harrison, Danville, Ill.

CIVIL ENGINEER; graduate, 12 years' practical experience with consulting engineers and utility companies; water works and other utilities; investigations, reports, design, construction, appraisals. References. P. W. 825, Eng. News.

CIVIL ENGINEER, technical graduate. Three years' experience in the construction of water supply and sewage disposal plants, general building construction, pipe lines, and steel structures, as engineer and draftsman, desires position with engineer or contractor. At liberty after March 1. P. W. 803, Eng News.

YOUNG MAN—Technical graduate, 3 years' experience office and field, well recommended. Engineer or contractor. P. W. 799, Eng. News.

GRADUATE CIVIL ENGINEER; 6 years' experience, structural drafting railroad work and factory construction. P. W. 809, Eng. News.

CIVIL ENGINEER, 10 years' experience, field and office, desires position; structural or reinforced concrete design and estimates: railroad or municipal. P. W. 670, Eng. News, Chicago.

CIVIL ENGINEERING GRADUATE desires position as instrumentman. P. W. 833, Eng. News.

UNIVERSITY GRADUATE, 5 years' experience in exploration, surveying and mapping, together with design and construction inspection of water power developments and tower transmission lines, desires further work. P. W. 844, Eng News.

CIVIL ENGINEER, technical graduate; 24; two years' experience, railroad and maintenance concrete bridge design and construction; position with engineers or contractors; go anywhere, immediately. P. W. 850, Eng. News.

TECHNICAL GRADUATE; 29; eight years' experience detailing, checking, designing structural steel for power houses, mills, office buildings. P. W. 847, Eng. News.

Bridge and Structural

CHIEF DRAFTSMAN, charge 60 men, desires change; age 35; strong personal force; proved executive ability; 14 years' comprehensive experience. P. W. 520, Eng. News.

BRIDGE AND STRUCTURAL ENGINEER with long experience holding responsible positions wishes to change location. P. W. 751, Eng. News.

STRUCTURAL ENGINEER, 18 years' experience in steel concrete, general engineering and building construction, office and field; is open for position. Best of references. Address, M. O. B., 129 N. Pryor St., Atlanta, Ga.

Surveyors

INSTRUMENTMAN, topographer, map, draftsman; thorough experience, own instruments; first class. P. W. 849, Eng. News, Chicago.

FIELD ENGINEER, 12 years' experience, all kinds of surveying, railroad and public works construction; Spanish spoken; Tropics preferred. P. W. 843, Eng. News.

YOUNG MAN, 19, seeks position as rodman, chainman; 2½ years' field experience; will go anywhere. P. W. 835, Eng. News, Chicago.

Draftsmen

CHIEF DRAFTSMAN wants position; 15 years' experience; 5 years in charge of an office of 20 men; has successfully handled over 600 contracts, 50 to 5000 tons; thoroughly experienced in mill and office buildings, coal tipples, bridges and complicated structural work; is a good designer and hustler; leaving of his own volition. P. W. 845, Eng. News.

ENGINEER-DRAFTSMAN, 12 years' experience designing and construction of steam and hydro-electric plants, structural steel, reinforced concrete work, plumbing and estimating, desires position. P. W. 832, Eng. News.

Superintendents, Etc.

SUPERINTENDENT of cement plant, age thirty-six, good construction man or operator, desires change available on short notice. P. W. 776, Eng. News.

ENGINEER desires position. Expert derrick or cableway runner. Massachusetts and New York City licenses. References from all former employers. Location no object. P. W. 815, Eng. News.

GRADUATE ENGINEER, 10 years' experience on construction of various types foundations, bridge piers, retaining walls, bridges, railroad construction, wants job with contractors or engineering firm as superintendent or in charge construction office. Unmarried, go anywhere. P. W. 817, Eng. News.

SALESMAN; five years' experience selling contractors' machinery; graduate Boston Tech.; wishes position selling contractors' supplies or machinery; interview Boston or New York; will go anywhere. P. W. 821, Eng. News.

EXPERIENCED MECHANICAL SALESMAN, 31 years of age; 9 years' selling experience; is at present employed but desirous of making new connections with a manufacturer of similar line; is business getter of proven ability and well known among the larger contractors and engineering concerns in the Eastern States. P. W. 851, Eng. News.

ESTIMATOR, general building construction, graduate civil engineer, 10 years' experience, reliable, hustler, wants change, New York location. P. W. 769, Eng. News.

CONSTRUCTION SUPERINTENDENT; Technically educated; 8 years' experience, pneumatic caissons, tunnels, cofferdams, pile driving earth and rock excavation, plain and reinforced concrete; can organize; reasonable salary, with inducements to start; best references; New York interview. P. W. 848, Eng. News.

AN A-1 STRUCTURAL MAN; 6 years foreman templet shop, 7 years superintendent small shops, 8 years general foreman shops fabricating 20,000 tons per year; open for engagement April 1; best of references. P. W. 830, Eng. News.

REINFORCED STEEL SUPERINTENDENT, experienced beam and girder and mushroom systems desires position. P. W. 836, Eng. News.

SUPERINTENDENT, experienced in highway, park and sewer construction, also in quarrying and crushing stone; estimator and organizer; go anywhere. P. W. 831, Eng. News.

CONSTRUCTION ENGINEER, available; 45, married, absolutely temperate; 15 years' experience on large work; excavation, railroad building, all kinds of concrete and building construction, mill-wrighting, handling and placing heavy machinery. Anywhere. Best of references. P. W. 827, Eng. News, Chicago.

SUPERINTENDENT or general foreman of crushing or mixing plant available Mar. 1; location immaterial; excellent references. P. W. 829, Eng. News, Chicago.

SUPERINTENDENT OR GENERAL FOREMAN, ten years' experience reinforced-concrete buildings; sober, hustling good organizer, highest reference. P. W. 842, Eng. News.

JUNIOR ENGINEER U. S. R. S.; 28; married; 8 years' practical experience, 5 years with the Government on preliminary surveys, estimates, design and construction of canals, lateral systems, reservoirs, earth dams, and appurtenant structures; desires location in West; moderate salary; available April 1; write for references. P. W. 841, Eng. News, Chicago.

SUPERINTENDENT of building; 12 years' experience general building construction; references; go anywhere. P. W. 840, Eng. News, Chicago.

CARPENTER FOREMAN or general foreman; age 30; experienced; references; location immaterial. P. W. 839, Eng. News.

POSITIONS OPEN

CIVIL ENGINEER to take charge of drafting department of a long established company engaged in the fabrication and erection of structural steel; must be competent to design; must be able to direct men. State previous experience, age, nationality, residence and salary desired. P. 808, Eng. News.

COMPETENT QUANTITY SURVEYOR, one capable of taking off quantities and making up estimates on mason work and allied trades. References required. P. 798, Eng. News.

HULL DRAFTSMAN—First class man required. P. 793, Eng. News.

STEAM ENGINEER—Large manufacturing plant, about 20 miles from Buffalo, desires to employ, permanently, a steam engineer of experience, to take charge of 1500 hp. boiler plant. Applicants should have knowledge of methods for obtaining highest coal and boiler efficiency and should be able personally to make repairs to equipment. P. 828, Eng. News.

ESTABLISHED FIRM wants recent graduate civil engineer; opportunity good; energy and patience required; state salary expected. P. 834, Eng. News., Chicago.

Employment Agencies

The Employment Agencies advertising in this paper agree to refund any registration fee on demand any time within the first six months when no position is secured.

SUPERINTENDENT for malleable iron plant, also general foreman for large motor shop, building motors and generators. Only high grade men need apply. The Toledo Engineering Agency, Toledo, Ohio.

WORKS MANAGER who is master mechanic and with A-1 experience along following lines: Die work of all kinds where used to punch and draw small brass articles; screw machines and their products; stamping; assembling small, delicate mechanism; polishing, plating, etc.; wood working machinery; polishing, enameling, etc. Must be high grade man, in every respect. Applications strictly confidential. R. W. Bixby, Attorney, Lock Box 134, Buffalo, N. Y.

WANTED

WE PAY 20 cents each for "Engineering News," 1914, Jan. 1, 8, Sept. 24, delivered. International Magazine Co., Elizabeth, N. J.

AGENTS AND SALESMEN

ENGINEERING REPRESENTATIVES—Agents with offices in all parts of the United States to represent the Thomas Method of reinforced concrete bridge construction. W. M. Thomas, 915 Hibernian Bldg., Los Angeles, Calif.

A reputable old established firm in Paris, France, is seeking to represent a first class American manufacturing concern of the machinery branch and hardware trade, suitable for the European market. Possesses really capable and well-organized, experienced selling staff. Only a first class house wishing to give a sole agency considered. Highest credentials and banking references furnished. Reply in first instance with full particulars to James Bement, 63 bis, Rue de la Victoire, Paris, France.

BUSINESS OPPORTUNITIES

TO RENT—Large machinery house in lower part New York City will rent part of store, show window and shipping facilities to manufacturer of machine tools, steam pumps, gas engines or contractors machinery. A fine chance for party wishing New York representation. Price low. B. O. 804, Eng. News.

SALES MANAGER—A Canadian farming implement manufacturing corporation has an opening for experienced sales manager [preferably with experience in above line], to take full charge of sales department; attractive salary and commission contract guaranteed to right party; $2500 cash investment and A1 references required. This is a high grade proposition for a high grade man. Investment fully secured. Correspondence treated strictly confidential. B. O. 805, Eng. News.

FACTORY SUPERINTENDENT—Position vacant for a high grade factory superintendent, with executive ability, to take full charge of all branches of a farming implement factory in Canada; applicant must be able to invest $2500 cash and move at once to Ontario, Canada; contract with good salary guaranteed to right party; investment covered by guaranteed security. B. O. 806, Eng. News.

TREASURER—Large manufacturing corporation, established 1850, location Canada, has a vacancy for a highly efficient business man as secretary and treasurer; party must be able to invest at least $5000 cash and give best of references as to ability and character; contract with good salary guaranteed to right party; investment absolutely secured; answer in full or no attention paid. B. O. 807, Eng. News.

CONTRACTOR, extensively experienced in constructing manufacturing plants and commercial buildings, vicinity of New York, desires engineer as partner; investment $10,000 to $15,000. B. O. 837, Eng. News.

ASSOC. MEM. AM. SOC. C. E. wants to buy civil engineering practice, netting at least $2500 per year, or working interest in larger business. Give price and essential facts, which will be held confidential. B. O. 846, Eng. News.

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26 YEARS' EXPERIENCE—DESIGN AND SUPERVISION.

Railway construction, renewal and appraisal; Railway and highway bridges; Mill buildings; Construction plants; Crusher plants; Quarries; Concrete plants; Water supply; Filters; Miscellaneous. 46 years of age, married, good health.

P.W. 826, ENG. NEWS, CHICAGO

Classified List

Second Hand Machinery, Material and Equipment

For Sale—Exchange—Rent—Wanted

Items not otherwise marked list equipment for sale.

Rates: Less than 4 insertions 55 cents per line—4 to 11 insertions 50 cents per line—12 or more insertions 45 cents per line.

N

ADDRESSES

BECKWITH, J. S., 108 Park Way, N. S., Pittsburgh, Pa.

BRADEN, James C., 26 Cortlandt St., N. Y. City.

CONCORD Co., 117 Main St., Flemington, N. J. (Tel. 81 L).

CONTRACTORS' Service Co., 50 Church St., N. Y. City.

DALLETT & CO., Harrison Bldg., Phila., Pa.

DOUGLAS, Geo. B., 29 Broadway, New York.

GIVIN Co., Herbert, 30 Church St., N. Y. City.

GRIMSHAW CO., Wm. B., Drexel Bldg., Phila., Pa.

HITNER'S Sons Co., Henry A., Philadelphia, Pa.

HOISTING Engine Sales Co., 120 West 32d St., New York.

LINES FLYNN Co., Inc., 30 Church St., N. Y. City.

MARINE Metal and Supply Co., 167 South St., N. Y. City.

NEW RIVER Co., The, Macdonald, W. Va.

PIPE & Contractors Supply Co., 3 Dover St., N. Y. City.

ROCHESTER—Address P. O. Box 27, Rochester, N. Y.

SAMPSON Co., Geo. H., 13 Pearl St., Boston, Mass., and 42 B'way, N. Y. C.; or Winston & Co., Brown Station, N. Y.

SOUTHERN Iron & Equipment Co., Atlanta, Ga.

STALLEY, G. T., Box 390, Cleveland, Ohio.

WHITNEY, O. R., 39 Cortlandt St., N. Y. C. (Cort. 6095).

AIR COMPRESSORS

2—Ingersoll-Rand, Cross Compound steam and air cylinders with Corliss valve gear 2500 cu. ft. capacity.—SAMPSON.

2—Ingersoll-Rand, Cross Compound Steam and Air Cylinders with Corliss valve gear 3300 cu.ft. capacity. Boilers and Condensers with this plant. All in good condition. Bargain.—SAMPSON.

1—4700 Cu. Ft. Rand B. B. 3 Compound Steam and Compound Air Compressor with Condenser.—SAMPSON.

Several second-hand air compressors, steam and belt driven, straight line and two stage of various sizes from 70 to 1300 cu. ft. capacities. Good condition.—SAMPSON.

1—22x22-13-¼x24, Sullivan, steam driven, class WB 2, straight line, 2 stage, cap., 1160 cu. ft., 1—24x24x30, McKiernan, class A, straight line, steam driven, cap. 1414 cu. ft.; 1—24x24-½x30, Ingersoll, class A, steam driven, straight line, cap. 1223 cu. ft., 2—16x20-¼x16, Ingersoll-Sargeant, class H-1, duplex, steam driven, cap. 1540 cu. ft.—HITNER'S.

1 Blaisdell 16x10x10, 60 H.P., 342 cu.ft. First class condition. Theo. Smith & Sons Co., Jersey City, N. J.

Steam driven 3 Laidlaw-Dunn-Gordon duplex 2-stage, and 5 Norwalk tandem 2-stage, capacities 900 to 2100 cu.ft., condition excellent.—NEW RIVER.

3—24"x24"x30" Rand S. L. Price $1000 each—L. F. SEYFERT'S SONS, INC., 437 N. 3rd St., Phila., Pa.

BAILING PRESS

1 Dederick continuous bailing press.—CONCORD.

BARGES

[Wanted]

Deck barge about 34'x80'x6' steel or wood, in first class condition. Mail full particulars and location to HENRY BICKEL CO., Louisville, Ky.

BOILERS

5—250 H.P. B. & W., 150 lbs. steam. Horizontal return tubular, 2—72"x20', 1—78"x20', 1—72"x18', 1—72"x15', 1—72"x14', triple riveted, butt strapped, 125 lbs. steam.—HITNER'S.

35, 60 and 80 H.P. loco. boilers—PIPE.

6—550 H.P. Altman Taylor B. & W. type, 150 lbs. pressure, complete with steel supporting structure—Arranged to set two in battery; one battery equipped with Taylor stokers.—HENRY R. KENT & CO., 141 Broadway, New York, N. Y.

BONE MILL

3' Denmead bone mill with screen elevators.—CONCORD.

BUCKETS

1—1 yd. Theo. Smith Orange Peel.—PIPE.

5—¾ cu. yd. standard clam shells.—STALLEY.

Orange peel—¾, 1, 1¼, 1½ yd. capacity; clam shell—½ to 3 yd. capacity.—GIVIN.

CARS

[Standard Gauge]

7—12 yd. 2-way Oliver dump cars with air brakes.—ROCHESTER.

[24" Gauge]

1½ yd. Western with Vulcan Dinkey.—DALLETT.

CRUSHERS

Farrel Jaw, 15x9, with screen and engine.—MARINE.

National Jaw, 14x8, on wheels.—MARINE.

Gyratory, Nos. 8, 7½, 6, 5, 4, 3.—GIVIN.

1 No. 2 Climax on trucks with 15' elevator with 18 H.P. mounted Climax portable engine and boiler.—BECKWITH.

CRUSHER EQUIPMENT

Stone crusher equipment including boiler, engine, crusher and 115 ft. American Steel derrick, complete. Will sell all or part.—KANAWHA LAND CO., Charleston, W. Va.

DERRICKS

1 Steel stiff leg, 70' boom; 1 steel guy, 70' boom, 25 tons cap.; 1 steel traveling, 45' boom.—GIVIN.

15' traveling derrick.—CONCORD.

DREDGES

Hydraulic and dipper. Sale or charter.—GIVIN.

1—20" Hydraulic dredge, complete with Pontoons, pipe line, etc.—ROCHESTER.

DRILLS, ROCK

6 Ingersoll, type F-24, 2 class "C" Little Giants.—BECKWITH.

Most items are signed with only part of the advertiser's name. Complete names and addresses in alphabetical order will be found under the heading "Addresses."

ELECTRIC LIGHTS

For sale at less than half cost. Sixty 300 C.P. D.C. 220 V. Nernst arc lamps, moon globes. In perfect running condition. Can be seen in use in our offices; $4 each. (Regular price, $9.50). Price includes drop lighting switch. Must sell as our voltage is 110 in new office. HILL PUBLISHING CO., 10th Ave. at 36th St., New York.

ENGINES, GAS

1 3 H.P. Vertical Type Fairbanks with sub-base.—SAMPSON

ENGINES, STEAM

75-H.P. Diesel, cyl. 14x24, excellent condition.—CONCORD.

FIRE ENGINES

2 Fire Engines, condition, first class.—HITNER'S.

FROGS & SWITCHES

11 split switches, 10 stiff keyed frogs, 15 low century switch stands, 18-15 ft. guard rails.—CONCORD.

GENERATORS

C. & C. 50-K.W. belted type generator, 650 revolutions, 230 volts, LaRoche Switchboard.—CONCORD.

HAMMERS

2 McKiernan-Terry steam No. 7.—PIPE.

HEATERS, FEED WATER

Several types, capacities up to 1200 HP.—NEW RIVER.

2 Blake 150 H.P. vertical water feed heaters.—CONCORD.

HOISTING ENGINES

Lidgerwood 10x12 D.D.D.C. side by side drums, 33" diam.—MARINE.

Lidgerwood, 5x8 D.D.D.C. with boiler.—MARINE.

1 3 drum Flory hoist 10x12 with boiler and three independent winch-heads, excellent condition; 4 7x10 D.C.D.D. with boilers; 1 Mead & Morrison swinger D.C.S. D. 6½x8, practically new; 1 Lidgerwood D.C.D.D. with swinger, skeleton 7x10, and 1 National D.C.D.D. with swinger, skeleton 7x10.—PIPE.

2 Lidgerwood 14x18, D.C. 3-tandem drum, reversible link motion; 1 Lidgerwood, 10x12, D.C. S.D. reversible link motion; 1 Lambert, 10x12, D.C. D.D. with boiler; 2 Lambert, 8x10, D.C. D.D. with Mass. boilers; 1 Lambert 7x10, D.C. D.D. with boiler; 1 Mundy, 7¼x10, D.C. D.D. with boiler; 1 Mundy, 6¼x10, D.C. D.D. with boiler; 1 O. & S. 6¼x8, D.C. D.D. with boiler. 2 Lidgerwood, 60 H.P. D.D. and swinger d.c. hoists.—HITNER'S.

9x10 Lidgerwood 3 drum—8¼x10 Lidgerwood D.D. with or without boiler or swinger. Other sizes.—GIVIN.

TWO HUNDRED FIFTEEN hoists. Immediate delivery. 3- drum, 7x10, 8¼x10, 9x10, Skeleton or boiler.—HOISTING.

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Second-Hand Transits, Levels, etc. Bought, sold or exchanged. Send for list of Second-Hand Instruments. Get our prices before ordering. WILLIAMS, BROWN & EARLE, Inc., Engineering Supplies, Dept. E, 918 Chestnut St., Phila.

$125 G. & B. 18" Precise Y level, new, $85; $240 H. & Brightly Engrs. transit, arc, good, $137. Guaranteed. 99 others. Rentals, repairs, supplies.—ARCHITECTS' & ENGINEERS' SUPPLY CO., Kansas City, Mo.

LOCOMOTIVES

[Standard Gauge]

1 Porter, Std. G., 20-ton, 12x18, saddle tank.—DOUGLAS.

50 locomotives, Switch, Mogul, Consolidation, Ten Wheel and Saddle Tank types.—SOUTHERN.

2—40 ton switchers, overhauled.—CONTRACTORS S. CO.

[36" Gauge]

10 10x16" Porter, Davenport and Vulcans.—SOUTHERN.

5 9x14" Porters.—SOUTHERN.

9x14 Porter and 10x16 Baldwin.—BRADEN.

2—9x14 Baldwin saddle tank.—BECKWITH.

5—10x16 Vulcans, 1911-12.—CONTRACTORS S. CO.

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4 and 8-wheel, 10, 15 and 20 tons capacity.—HOISTING MACHINERY Co., 48 Church St., New York City.

4 and 8 wheel 10 and 15 ton.—CONTRACTORS S. CO.

15-ton Browning, 4-wheel, S. G., 50' boom.—DALLETT.

1—7 Ton, 4 wheel, Industrial, 21' boom; 1—15 ton, 8-wheel Industrial, wrecking crane, 20' boom, goose neck.—HITNER'S

15 ton excellent condition, cheap.—STALLEY.

4 and 8 wheel, 10, 15, 20 and 25 tons capacity.—GIVIN.

1—No. 1 Standard Browning with Hayward bucket, used about 6 months, or will exchange for No. 1 Thew shovel or any other make equally as good.—WHITMORE, RAUBER & VICINUS, Rochester, N. Y.

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Hadsel 2 yd. Batch, with engine,—on channels.—MARINE.

Smith ¾ yd. Batch with engine,—on skids—MARINE.

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Portable plant, complete capacity 300-600 yds. per day: rare bargain.—LINES FLYNN.

1 cu.yd. Smith with engine on skids.—BECKWITH.

1 Eureka with 3 H.P. D.C. motor, continuous; 2 Austin cubes with engines and boilers on steel skids, and 2—2½ Smiths with engines on wheels.—PIPE.

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76 pcs. Lackawanna 14" Arched Web, 32' long; used once. Also several other lots.—GRIMSHAW.

About 100 pcs. 28', fairly good, $25 ton f.o.b. cars, Fort Worth, Tex.—F. N. GRAVES, Pur. Agent, Forth Worth, Texas.

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Wrought with new threads and couplings, all sizes.—PIPE.

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1 Cameron 3½x2x4 Steam pump.—SAMPSON.

1 No. 8, 1 No. 9, 1 No. 10 Cameron.—MARINE.

2 Davidson Simplex 9x9x11.—MARINE.

1 Worthington Duplex 6x4x6.—MARINE.

1 Worthington Duplex 10x6x10.—MARINE.

2 Snyder-Hughes Vacuum 10x14x12 Simplex.—MARINE.

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Piston and plunger, sizes up to 12x12x12.—NEW RIVER.

2 Worthington 1,500,000 gal. Horizontal, Duplex Power, 14" diameter, 10" stroke.—WATER & LIGHT COMMISSION, Fergus Falls, Minn.

1 Compound duplex vertical center packed plunger, circulating pump, size 21—34x19—24, capacity 3500 gallons, 24 hours.—HITNER'S.

3 Underwriters fire pumps cheap.—WHITNEY.

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2 Emerson steam No. 4 and 1 Pulsometer No. 7.—PIPE.

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100 tons 85 lb. steel rails, A. S. C. E., Sec. No. 235, with joints. Hunt's report on request.—CONCORD.

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Macadam roller recently overhauled. A1 condition.—Write F. S. 779, Eng. News.

[Wanted]

Asphalt roller. Send description and price to W. 780, Eng. News.

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2—Complete Sewer Contractor's Plants, including compressors and locks.—LINES FLYNN.

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Marion, model 60, steam shovel.—SOUTHERN.

1 ¾-yd. revolving traction, rebuilt.—LINES FLYNN.

1 70-ton Bucyrus, 2½ yd. dipper; Thew "O."—BRADEN.

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50 steam shovels, all makes and sizes; some used only two months; rent or sale. Rare bargains. Everything sold is guaranteed.—CONTRACTORS S. CO.

Thew "O" traction, high number, Mass. boiler.—DALLETT.

1 Model 0 Thew, built 1912, low price.—GIVIN.

1—Bucyrus, 18 B, traction revolving ⅞ yd.—GIVIN

1—1¼ yd. Vulcan steam shovel.—ROCHESTER.

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350 12" I Beams 20' to 30' long.—PIPE.

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3000-gal. oil tank, 20 ft. 4 in., 8 ft. diam.—CONCORD.

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1 15-ton electric 36' 6" span.—DOUGLAS.

One—with clam shell bucket, new and cheap.—WHITNEY.

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One No. 1 Austin, good shape and a bargain. BOYD & COOK, 1018 Reibold Bldg., Dayton, Ohio.

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2 Houston 44" Vertical, with beveled gears, shafting, etc. —WATER & LIGHT COMMISSION, Fergus Falls, Minn.

WELL DRILLING MACHINES

1 No. 3½ Keystone well drilling machine.—ROCHESTER.

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72 pairs 33-in. std. gage car wheels on axles.—CONCORD.

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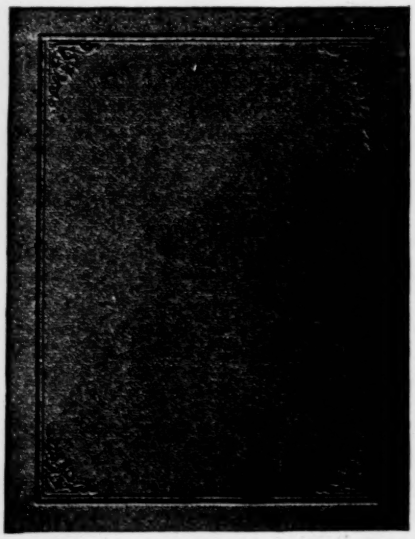

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